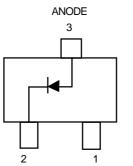
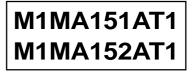


Single Silicon Switching Diodes

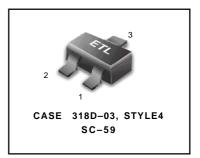
These Silicon Epitaxial Planar Diodes are designed for use in ultra high speed switching applications. These devices are housed in the SC-59 package which is designed for low power surface mount applications.

- Fast t _{rr} , < 3.0 ns
- Low C $_{\rm D}$, < 2.0 pF
- Available in 8 mm Tape and Reel Use M1MA151/2AT1 to order the 7 inch/3000 unit reel. Use M1MA151/2AT3 to order the 13 inch/10,000 unit reel.





SC-59 PACKAGE SINGLE SILICON SWITCHING DIODES 40/80 V-100mA SURFACE MOUNT



CATHODE NO CONNECTION

MAXIMUM R ATINGS (T $_A = 25^{\circ}C$)

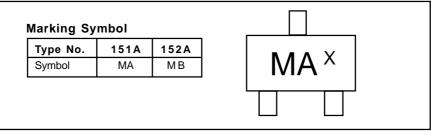
Rating			Symbol	Value	Uı	nit
Reverse Voltage	M1MA151AT	1	V _R	40	V	dc
	M1MA152AT	1		80		
Peak Reverse Voltage	M1MA151AT	1	V _{RM}	40	V	dc
	M1MA152AT	1		80		
Forward Current			I _F	100	m/	Adc
Peak Forward Current			I _{FM}	225	mA	\dc
Peak Forward Surge Current			I _{FSM} ⁽¹⁾	500	m/	Adc
HERMAL CHARACTERIS	TICS					
Rating			Symbo	IMax	Uı	nit
Power Dissipation			Pp	200	m	W
Junction Temperature			TJ	150	9	С
Storage Temperature			T stg	-55 to +1	50 °C	С
LECTRICAL CHARACTER	ISTICS $(T_A = 25)$	5°C)				
Characteristic	:	Symbol	Condition	Min	Max	Unit
Reverse Voltage Leakage Curren	nt M1MA151AT1	I _R	V _R = 35 V	—	0.1	μAdc
	M1MA152AT1		V _R = 75 V	—	0.1	
Forward Voltage		V _F	I _F = 100 mA	I	1.2	Vdc
Reverse Breakdown Voltage	M1MA151AT1	V _R	I _R = 100 μA	40	_	Vdc
	M1MA152AT1			80	_	
Diode Capacitance		CD	V _R = 0, f = 1.0 MHz	—	2.0	pF
Reverse Recovery Time		t rr ⁽²⁾	$I_{F} = 10 \text{ mA}, V_{R} = 6.0 \text{ V}$, —	3.0	ns
			$R_{L} = 100\Omega, I_{rr} = 0.1 I_{R}$			



M1MA151AT1 M1MA152AT1

INPUT PULSE OUTPUT PULSE RECOVERY TIME EQUIVALENT TEST CIRCUIT t_p I_F t t 10% R L 90% $I_{rr} = 0.1 I_{R}$ V_R $I_{F} = 10 \text{ mA}$ $t_p = 2 \mu s$ $V_R = 6 V$ t _r= 0.35 ns R $_{L}$ = 100 Ω

DEVICE MARKING



The "X" represents a smaller alpha digit Date Code. The Date Code indicates the actual month in which the part was manufactured.

